

AIR QUALITY IMPACT ANALYSIS

Canyon View Estates Project

County of Los Angeles

Project # 17-757-101

Prepared for:

PICO CANYON, LLC

1435 Reynolds Court

Thousand Oaks, CA 91362

Prepared by:

ENVICOM CORPORATION

4165 E. Thousand Oaks Boulevard, Suite 290

Westlake Village, CA 91362

May 10, 2017

Revised September 8, 2017

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1.0 INTRODUCTION

The purpose of this Air Quality Impact Analysis is to identify, describe, and evaluate the significance of potential air quality impacts resulting from the construction and operation of a proposed 37-lot single-family residential tract in the County of Los Angeles. This analysis also includes a discussion and evaluation of potential greenhouse gas (GHG) emissions.

2.0 ATMOSPHERIC SETTING

The project site is located in unincorporated Los Angeles County, just west of the City of Santa Clarita, within the South Coast Air Basin (air basin). The air basin is bounded by the Pacific Ocean to the west, the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and San Diego County to the south.

In addition to being a metropolitan area with a high level of human activity, the topography and climate of Southern California combine to produce unhealthful air quality in the air basin. Low temperature inversions, light winds, shallow vertical mixing, and extensive sunlight, in combination with topographical features such as adjacent mountain ranges that hinder dispersion of air pollutants, can result in degraded air quality within the basin.

3.0 PROPOSED DEVELOPMENT

The proposed project would develop a housing tract with 37 single-family home lots, associated access roadways and utilities, and stormwater desilting basins within a 90-acre property to be accessed by extending Magnolia Lane from its existing terminus. The proposed development would be clustered within approximately 21 acres of the site, while the remainder of the site would remain undeveloped open space. Existing land uses in the surrounding vicinity includes adjacent residential development to the west, and residential developments and open spaces to the east and north of the site, with open space bordering the site to the south. The Interstate 5 Freeway and commercial development are located approximately 0.75 miles due east of the project site.

Construction of the project would require grading to provide level building pads for the proposed lots and roads, and to create stormwater desilting basins. Cut and fill grading quantities are estimated to be 375,000 cubic yards each. All grading quantities of cut and fill would be balanced onsite.

4.0 AIR QUALITY SETTING

Ambient Air Quality Standards

National and State ambient air quality standards (AAQS) are the levels of air quality considered safe, with an adequate margin of safety, to protect the public health and welfare. They are designed to protect those people most susceptible to respiratory distress such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise, called "sensitive receptors." Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed. Recent research has shown, however, that chronic exposure to ozone (the primary ingredient in photochemical smog) may lead to adverse respiratory health even at concentrations close to the ambient standard. National and State AAQS currently in effect in California are shown in **Table 1**. Sources and health effects of various pollutants are shown in **Table 2**.

Table 1
Ambient Air Quality Standards

Ambient Air Quality Standards							
Pollutant	Averaging Time	California Standards ¹		National Standards ²			
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry	
	8 Hour	0.070 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)			
Respirable Particulate Matter (PM ₁₀) ⁹	24 Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	20 µg/m ³		—			
Fine Particulate Matter (PM _{2.5}) ⁹	24 Hour	—	—	35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis	
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³			15 µg/m ³
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m ³)	—	Non-Dispersive Infrared Photometry (NDIR)	
	8 Hour	9.0 ppm (10 mg/m ³)		9 ppm (10 mg/m ³)			
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		—			
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m ³)	—	Gas Phase Chemiluminescence	
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)		0.053 ppm (100 µg/m ³)			Same as Primary Standard
Sulfur Dioxide (SO ₂) ¹¹	1 Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)	
	3 Hour	—		—			0.5 ppm (1300 µg/m ³)
	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm (for certain areas) ¹¹			—
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) ¹¹			—
Lead ^{12,13}	30 Day Average	1.5 µg/m ³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption	
	Calendar Quarter	—		1.5 µg/m ³ (for certain areas) ¹²			Same as Primary Standard
	Rolling 3-Month Average	—		0.15 µg/m ³			
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards			
Sulfates	24 Hour	25 µg/m ³	Ion Chromatography				
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence				
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography				

See footnotes on next page ...

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California Air Resources Board (5/4/16)

Table 1
Table 1 (Continued)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu\text{g}/\text{m}^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu\text{g}/\text{m}^3$ to 12.0 $\mu\text{g}/\text{m}^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu\text{g}/\text{m}^3$, as was the annual secondary standard of 15 $\mu\text{g}/\text{m}^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu\text{g}/\text{m}^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu\text{g}/\text{m}^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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Table 2
Health Effects of Major Criteria Pollutants

Pollutants	Examples of Sources	Health Effects
Particulate Matter (PM-2.5, PM-10)	<ul style="list-style-type: none"> • Cars and trucks (especially diesels) • Fireplaces, woodstoves • Windblown dust from roadways, agriculture and construction 	<ul style="list-style-type: none"> • Hospitalizations for worsened heart diseases • Emergency room visits for asthma • Premature death
Ozone (O ₃)	<ul style="list-style-type: none"> • Precursor sources*: motor vehicles, industrial emissions, and consumer products 	<ul style="list-style-type: none"> • Cough, chest tightness • Difficulty taking a deep breath • Worsened asthma symptoms • Lung inflammation
Carbon Monoxide (CO)	<ul style="list-style-type: none"> • Any source that burns fuel such as cars, trucks, construction and farming equipment, and residential heaters and stoves 	<ul style="list-style-type: none"> • Chest pain in heart patients ** • Headaches, nausea ** • Reduced mental alertness ** • Death at very high levels **
Nitrogen Dioxide (NO ₂)	<ul style="list-style-type: none"> • See carbon monoxide sources 	<ul style="list-style-type: none"> • Increased response to allergens
Source: California Air Resources Board, ARB Fact Sheet: Air Pollution and Health, webpage (reviewed December 2, 2009), accessed at https://www.arb.ca.gov/research/health/fs/fs1/fs1.htm March 1, 2017. * Ozone is not generated directly by these sources. Rather chemicals emitted by these precursor sources react with sunlight to form ozone in the atmosphere. ** Health effects from CO exposures occur at levels considerably higher than ambient.		

Baseline Air Quality

In the air basin, the agencies designated to develop the regional Air Quality Management Plan (AQMP) are the SCAQMD and the Southern California Association of Governments (SCAG). The most recent 2016 AQMP, approved on March 3, 2017, demonstrates attainment of the 1-hr and 8-hr ozone NAAQS as well as the latest 24-hr and annual PM_{2.5} standards.

Primary pollutants are those pollutants that are emitted in their already unhealthful form, the effects of which can generally be more closely linked to the specific location where they are emitted. Many particulates, especially fugitive dust emissions, are also primary pollutants. Because of the non-attainment status of the air basin for PM-10, an aggressive dust control program is required for construction projects to control fugitive dust. Secondary pollutants require time to transform from a more benign form to a more unhealthful contaminant, and their impact is more regional and may be far from the source.

Existing levels of ambient air quality and historical trends and projections in the project area are best documented from measurements made by the SCAQMD. The geographically closest SCAQMD air quality monitoring station to the project is in Santa Clarita, providing monitoring data for regional air pollutants such as ozone, carbon monoxide (CO), nitrogen oxides (NO_x), and particulate matter (PM-10). **Table 3** provides the last five years of data from this monitoring station. Table 3 provides available data from the last five years for fine particulate matter of 2.5-microns or less (PM-2.5) recorded in the West San Fernando Valley as no data for PM-2.5 was recorded for the Santa Clarita Valley monitoring station.

Ozone, the primary ingredient in photochemical smog, is an important pollution problem in the air basin. As shown in Table 3, in 2015 air samples at the Santa Clarita Valley SCAQMD monitoring station have exceeded the federal 8-hour standard on 15 days, and the California 8-hour standard and one-hour standard on 55 and 23 days, respectively.

Primary pollutants such as CO and NO_x are low near the project site because there is substantial excess dispersive capacity to accommodate localized emissions of those pollutants. As shown in Table 3, allowable levels of these criteria pollutants have not been exceeded in the past five years. Likewise, inhalable particulates (PM-10) concentrations measured at the Santa Clarita Valley monitoring station have not exceeded State or Federal standards in the past five years. No data on PM-2.5 concentrations are available from the Santa Clarita Valley monitoring station; however, as shown in Table 3, PM-2.5 concentrations measured in the West San Fernando Valley SCAQMD monitoring station to the south of the Santa Clarita Valley indicate that the Federal standard was exceeded from zero to two days per year for the days monitored over the past five years in that area, or approximately zero to two percent of the days monitored.

Table 3
Project Area Air Quality Monitoring Summary 2011-2015
(Days Standards Were Exceeded and Maximum Observed Levels)

Pollutant/Standard	2011	2012	2013	2014	2015
Ozone					
1-Hour > 0.09 ppm (S)	31	45	30	32	23
8-Hour > 0.07 ppm (S)	52	81	58	65	55
8- Hour > 0.075 ppm (F)	30	57	40	16	15
Max. 1-Hour Conc. (ppm)	0.144	0.134	0.134	0.137	0.126
Max. 8-Hour Conc. (ppm)	0.122	0.112	0.104	0.110	0.108
Carbon Monoxide					
8-Hour > 9. ppm (S, F)	0	0	0	0	0
Max 8-Hour Conc. (ppm)	0.8	1.1	0.8	1.2	0.9
Nitrogen Dioxide					
1-Hour > 0.18 ppm (S)	0	0	0	0	0
Max. 1-Hour Conc. (ppm)	0.060	0.066	0.065	0.057	0.065
Inhalable Particulates (PM-10)					
24-Hour > 50 µg/m ³ (S)	0/58	0/55	0/60	0/59	0/52
24-Hour > 150 µg/m ³ (F)	0/58	0/55	0/60	0/59	0/52
Max. 24-Hr. Conc. (µg/m ³)	45	37	43	47	41
Ultra-Fine Particulates (PM-2.5)					
24-Hour > 35 µg/m ³ (F)	1/117	2/110	1/118	0/109	1/113
Max. 24-Hr. Conc. (µg/m ³)	39.8	41.6	41.8	27.2	36.8
Source: SCAQMD Monitoring Reports from the Santa Clarita Valley Station (West San Fernando Valley Station for PM-2.5)					
S=State Standard F=Federal Standard					

5.0 AIR QUALITY IMPACT

Significance Criteria

Air quality impacts are considered significant if they cause clean air standards to be violated where they are currently met, or if they substantially contribute to an existing violation of standards. Any substantial emissions of air contaminants for which there is no safe exposure, or nuisance emissions such as dust or odors, would also be considered a significant impact.

Based on Appendix G of the California CEQA Guidelines, a project would have a potentially significant impact if it:

- a. Conflicts with or obstructs implementation of the applicable air quality plan.
- b. Violates any air quality standard or contributes substantially to an existing or projected air quality violation.
- c. Results in a cumulatively considerable net increase of any criteria pollutants for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).
- d. Exposes sensitive receptors to substantial pollutant concentrations.
- e. Creates objectionable odors affecting a substantial number of people.

Air Quality Planning

While conformity with adopted plans, forecasts and programs relative to population, housing, employment and land use designations could indicate conformance with the current AQMP, the air quality impact significance for this proposed project has been analyzed on a project-specific basis to determine consistency with SCAQMD project impact evaluation thresholds. For determining project significance under CEQA, the SCAQMD has designated emissions level thresholds for evaluating regional air quality impact significance. Projects in the SCAQMD with daily emissions that exceed emission thresholds shown in **Table 4** could result in significant impacts.

Table 4
Daily Emissions Thresholds

Pollutant	Construction	Operations
ROG	75	55
NO _x	100	55
CO	550	550
PM-10	150	150
PM-2.5	55	55
SO _x	150	150

Source: SCAQMD CEQA Air Quality Handbook, November 1993 Rev.

Additional Indicators

In its CEQA Handbook, the SCAQMD also states that additional indicators should be used as screening criteria to determine the need for further analysis with respect to air quality. The additional indicators are as follows:

-
- Project could interfere with the attainment of the federal or state ambient air quality standards by either violating or contributing to an existing or projected air quality violation.
 - Project could result in population increases within the regional statistical area which would be in excess of that projected in the AQMP and in other than planned locations for the project's build-out year.
 - Project could generate vehicle trips that cause a CO hot spot.

For the proposed project, diesel exhaust toxic air contaminants (TAC's) emitted from construction equipment would occur over a relatively brief period while construction is occurring. Health effects of TAC's are evaluated based on an accumulation over an assumed 70-year lifespan. Any measurable diesel TAC exposure from the project would occur for only the brief portion of this project's lifetime during construction, estimated to be less than two years.

The SCAQMD's resolution activity for odor compliance is mandated under California Health & Safety Code Section 41700, and falls under SCAQMD Rule 402. This rule on Public Nuisance Regulation states: "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals."

Sensitive Receptors

Air quality impacts are analyzed relative to those persons with the greatest sensitivity to air pollution exposure. Such persons are called "sensitive receptors." Sensitive population groups include young children, the elderly and the acutely and chronically ill (e.g., those with cardio-respiratory disease, including asthma). For this project, nearby residences are considered to be sensitive uses because they may be occupied for extended periods, and residents may be outdoors when exposure is highest.

Construction Activity Impacts

Dust is typically the primary concern during construction of residential tracts where land clearing and grading are proposed. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions." Emission rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). Because of the inherent uncertainty in the predictive factors for estimating fugitive dust generation, regulatory agencies typically use one universal "default" factor based on the area disturbed assuming that all other input parameters into emission rate prediction fall into midrange average values.

CalEEMod was developed by the SCAQMD to provide a model by which to estimate both construction emissions and operational emissions from a variety of land use projects. It calculates both the daily maximum and annual average emissions for criteria pollutants as well as total or annual greenhouse gas (GHG) emissions.

Estimated construction emissions were modeled using CalEEMod2016.3.1 to identify maximum daily emissions for each pollutant during project construction. The output reports from CalEEMod are included as **Appendix A** to this report. Construction emissions were modeled based on the default construction equipment fleet list and duration of each construction phase determined by CalEEMod as adjusted for site specific conditions. The construction equipment list and construction phases modeled are shown in **Table 5**. Based on the indicated equipment fleet shown in Table 5, the project's maximum daily construction

emissions as calculated by CalEEMod are listed in **Table 6**.

As seen in Table 6, peak daily construction activity emissions of criteria air pollutants are estimated to be far below thresholds for determining significance under CEQA per the SCAQMD CEQA Air Quality Handbook. Therefore, the project’s impacts on regional air quality during construction would be less than significant and no mitigation measures would be required.

Table 5
Conceptual Construction Equipment Fleet

Phase Name and Duration	Equipment ^a
Site Preparation (10 days)	2 Rubber-tired Dozers
	4 Loader/Backhoes
Grading (35 days)	2 Excavators
	1 Grader
	2 Scrapers
	1 Rubber-tired Dozer
	2 Loader/Backhoes
Construction (370 days)	3 Forklifts
	1 Generator set
	3 Loader/Backhoes
	1 Welder
Paving (20 days)	2 Pavers
	2 Paving equipment
	2 Rollers
Architectural Coating (20 days)	1 Air Compressor
^a CalEEMod output, September 8, 2017	

Table 6
Maximum Daily Construction Emissions (pounds/day)

	ROG	NO_x	CO	SO₂	PM-10	PM-2.5
Maximum Daily Construction Emissions						
Unmitigated	37.9	59.6	36.1	0.06	14.2	8.5
Mitigated *	37.9	59.6	36.1	0.06	7.6	4.8
SCAQMD Thresholds	75	100	550	150	150	55
Significant Impact? Y/N	No	No	No	No	No	No
Source: CalEEMod output, September 8, 2017.						
* The only model-based mitigation applied for this project was watering exposed dirt surfaces at least twice per day as required per SCAQMD Rule 403 (Fugitive Dust), to minimize the generation of fugitive dust.						

Localized Significance Thresholds Analysis

The SCAQMD has developed analysis parameters to evaluate ambient air quality on a local level in addition to the more regional emissions-based thresholds of significance. These analysis elements are called Localized Significance Thresholds (LSTs), and relate to a project’s potential to expose sensitive receptors to substantial pollutant concentrations. LSTs were developed in response to Governing Board’s Environmental Justice Enhancement Initiative 1-4 and the LST methodology was provisionally adopted in October 2003 and formally approved by SCAQMD’s Mobile Source Committee in February 2005.

Use of an LST analysis for a project is optional. For development of a residential tract such as the proposed

project, the potential for onsite emissions to exceed an applicable LST would primarily be during construction. LSTs are applicable for a sensitive receptor where it is possible that an individual could remain for 24 hours such as a residence, hospital or convalescent facility.

LSTs are only applicable to the following criteria pollutants: NO_x, CO, PM-10, and PM-2.5. LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

LST screening tables provided by SCAQMD list thresholds for projects that are 1, 2, or 5 acres in size, based on source-receptor distances of 25, 50, 100, 200 and 500 meters. The project’s construction would occur over approximately 21 acres of a 95-acre site, therefore screening criteria for a 5-acre site was used. Existing residences located at the terminus of Magnolia Lane would be the nearest sensitive receptors to the site. Due to the existing residences that are within 25 meters of the western project boundary, the 25-meter screening criteria were considered for this project. Using these criteria provides a very conservative evaluation as the largest project size for which screening criteria are provided (5 acres) is considerably smaller than the approximately 21-acre project development area, and as project equipment would generally be operating at much greater distances from existing residences than 25 meters, and in a less concentrated area. This evaluation is based on estimated daily construction emissions for the phase and year representing the highest daily emissions. Daily averages would be lower than the reported maximum amounts.

Table 7 shows the relevant LST screening criteria and the estimated peak daily onsite emissions that would be generated during the construction phases. The emissions reported in Table 7 show emissions estimated with implementation of watering of exposed surfaces during construction, as all construction projects in the Air Basin must comply with the requirements of SCAQMD Rule 403, Fugitive Dust, which requires the implementation of Reasonably Available Control Measures (RACM) for all fugitive dust sources. SCAQMD Rule 403, Control Measure 08-2 states that during earth moving activities, projects are required to “Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction”. Therefore, peak onsite emissions during construction would not exceed LST screening criteria by compliance with applicable regulations, and as such, potential LST impacts would be less than significant, and no mitigation measures would be required.

Table 7
Local Significance Thresholds (LST)
and Peak Daily Onsite Emissions (pounds/day)

LST 5.0 acre/25 meters Santa Clarita Valley	NO_x	CO	PM-10	PM-2.5
LST Threshold	246	1,644	12	6
Peak Onsite Daily Emissions^a	59.6	36.1	7.6	4.8
Significant Impact? Y/N	No	No	No	No
Source: CalEEMod output, September 8, 2017.				
^a Emissions estimates include compliance with SCAQMD Rule 403 requirements of water application for fugitive dust suppression.				

Operational Impacts

During operations, the proposed residences would result in air quality emissions of criteria pollutants from

area sources, energy sources, and mobile sources. The SCAQMD thresholds for air quality impacts from operations are shown above in Table 4. Operations of the proposed residential development would not be anticipated to exceed SCAQMD significance thresholds for criteria pollutants, as shown in **Table 8**. As seen in Table 8, the project’s operational emissions would be far below SCAQMD thresholds; therefore, operational impacts would be less than significant.

Table 8
Maximum Daily Operations Emissions (pounds/day)

Daily Emissions	ROG	NO_x	CO	SO₂	PM-10	PM-2.5
Area	12.38	0.80	21.88	0.05	2.84	2.84
Energy	0.04	0.31	0.13	0.00	0.03	0.03
Mobile	0.74	3.75	10.00	0.03	2.70	0.74
Total	13.15	4.87	32.01	0.08	5.57	3.61
SCAQMD Thresholds	55	55	550	150	150	55
Significant Impact? Y/N	No	No	No	No	No	No

Source: CalEEMod output, September 8, 2017.

Conclusion

Construction activities would be subject to applicable code requirements and permit conditions, some of which would reduce air pollutant emissions to even lower levels than estimated above. As such, the proposed project would not result in significant air quality impacts during construction or operations and no mitigation measures would be required under CEQA.

6.0 GREENHOUSE GAS EMISSIONS (GHG) IMPACT

Greenhouse gas emissions (GHG) emitted by human activity are implicated in global climate change. These GHGs contribute to an increase in the temperature of the earth’s atmosphere by preventing long wavelength heat radiation in some parts of the infrared spectrum from leaving the atmosphere. For purposes of planning and regulation, Section 15364.5 of the California Code of Regulations defines GHGs to include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride. Fossil fuel combustion in the transportation sector (on-road motor vehicles, off-highway mobile sources, and aircraft) is the single largest source of GHG emissions, accounting for approximately half of GHG emissions globally. Industrial and commercial sources are the second largest contributors of GHG emissions with about one-fourth of total emissions. Residential uses in California contribute 7 percent to the GHG statewide burden plus a proportionate share of in-and out-of-state electrical generation emissions (ARM, 2014).

AB 32 is one of the most significant pieces of environmental legislation regarding greenhouse gas emissions that California has adopted. Major components of the AB 32 include:

- Require the monitoring and reporting of GHG emissions beginning with sources or categories of sources that contribute the most to statewide emissions.
- Requires immediate “early action” control programs on the most readily controlled GHG sources.
- Mandates that by 2020, California’s GHG emissions be reduced to 1990 levels.
- Must complement efforts to achieve and maintain federal and state ambient air quality standards and to reduce toxic air contaminants.

GHG sources are categorized into direct sources (i.e. company owned) and indirect sources (i.e. not company owned). Direct sources include combustion emissions from on-and off-road mobile sources, and fugitive emissions. Indirect sources include off-site electricity generation and non-company owned mobile sources.

Thresholds of Significance

Based on the CEQA Appendix G guidelines, a project would have a potentially significant GHG impact if it:

- Generates GHG emissions, directly or indirectly, that may have a significant impact on the environment, or,
- Conflicts with an applicable plan, policy or regulation adopted to reduce GHG emissions.

Section 15064.4 of the Code specifies how significance of GHG emissions is to be evaluated. The process is broken down into quantification of project-related GHG emissions, making a determination of significance, and specification of any appropriate mitigation if impacts are found to be potentially significant. At each of these steps, the new GHG guidelines afford the lead agency with substantial flexibility. Emissions identification may be quantitative, qualitative or based on performance standards. This analysis relies on the quantified GHG emissions estimated for this project using CalEEMod.

To determine a significance threshold for GHG emissions, in September 2010 the SCAQMD CEQA Significance Thresholds GHG Working Group recommended a threshold of 3,000 Metric Tons (MT) Carbon Dioxide equivalent (CO₂e) for all non-industrial projects. This 3,000 MT/year recommendation has been used as a guideline for this analysis.

Construction Activity GHG Emissions

During project construction, the CalEEMod computer model estimates that the construction activities would generate a total of 279.9 MT CO₂e emissions. SCAQMD GHG emissions evaluation guidance is to amortize construction emissions over a 30-year lifetime, which results in a project amortized annual emissions of approximately 9.3 MT CO₂e emissions.

Project Operational GHG Emissions

Based on the CalEEMod output files found in the appendix of this report, the project's annual operational GHG emissions from a combination of area sources, energy use, water use, and waste disposal would be 750.0 MT CO₂e. With the addition of the amortized construction GHG emissions discussed above, the project would result in annual emissions of approximately 759.3 MT CO₂e, which is well below the threshold guideline, and therefore the project's operational GHG emissions impact would not be significant.

GHG Conclusions

The project would not result in significant impacts regarding GHG emissions during construction or operations, and no mitigation measures would be required.

Appendix A

CalEEMod2016.3.1 Computer Model Output

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

Canyon View Estates V.2
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	37.00	Dwelling Unit	21.00	120,250.00	110

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - 21 acres graded. 120,250 sq ft res. space. 110 population per Initial Study.

Construction Phase - No demolition

Off-road Equipment -

Off-road Equipment - no cranes

Off-road Equipment - No demolition

Off-road Equipment - two rubber tired dozers

Construction Off-road Equipment Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	BuildingSpaceSquareFeet	66,600.00	120,250.00
tblLandUse	LandUseSquareFeet	66,600.00	120,250.00
tblLandUse	LotAcreage	12.01	21.00
tblLandUse	Population	106.00	110.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00

2.0 Emissions Summary

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.1979	59.5991	36.0929	0.0645	12.2454	2.6355	14.2133	6.6738	2.4247	8.4843	0.0000	6,488.2987	6,488.2987	1.9523	0.0000	6,537.1060
2019	1.9992	16.3247	15.8521	0.0246	0.1709	1.0712	1.2421	0.0459	1.0117	1.0576	0.0000	2,434.1508	2,434.1508	0.7196	0.0000	2,452.1416
2020	37.8775	14.1112	15.2653	0.0245	0.1677	0.7541	0.9217	0.0445	0.6937	0.7382	0.0000	2,379.3961	2,379.3961	0.7190	0.0000	2,397.3701
Maximum	37.8775	59.5991	36.0929	0.0645	12.2454	2.6355	14.2133	6.6738	2.4247	8.4843	0.0000	6,488.2987	6,488.2987	1.9523	0.0000	6,537.1060

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.1979	59.5991	36.0929	0.0645	5.6211	2.6355	7.5890	3.0326	2.4247	4.8431	0.0000	6,488.2987	6,488.2987	1.9523	0.0000	6,537.1060
2019	1.9992	16.3247	15.8521	0.0246	0.1709	1.0712	1.2421	0.0459	1.0117	1.0576	0.0000	2,434.1508	2,434.1508	0.7196	0.0000	2,452.1416
2020	37.8775	14.1112	15.2653	0.0245	0.1677	0.7541	0.9217	0.0445	0.6937	0.7382	0.0000	2,379.3961	2,379.3961	0.7190	0.0000	2,397.3701
Maximum	37.8775	59.5991	36.0929	0.0645	5.6211	2.6355	7.5890	3.0326	2.4247	4.8431	0.0000	6,488.2987	6,488.2987	1.9523	0.0000	6,537.1060

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	52.64	0.00	40.45	53.83	0.00	35.42	0.00	0.00	0.00	0.00	0.00	0.00

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.3757	0.8031	21.8791	0.0482		2.8432	2.8432		2.8432	2.8432	346.5760	671.4964	1,018.0724	1.0389	0.0235	1,051.0552
Energy	0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634
Mobile	0.7431	3.7549	10.0039	0.0342	2.6642	0.0334	2.6976	0.7129	0.0314	0.7442		3,477.5227	3,477.5227	0.1720		3,481.8229
Total	13.1549	4.8671	32.0145	0.0844	2.6642	2.9016	5.5658	0.7129	2.8996	3.6124	346.5760	4,543.5381	4,890.1141	1.2185	0.0308	4,929.7415

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.3757	0.8031	21.8791	0.0482		2.8432	2.8432		2.8432	2.8432	346.5760	671.4964	1,018.0724	1.0389	0.0235	1,051.0552
Energy	0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634
Mobile	0.7431	3.7549	10.0039	0.0342	2.6642	0.0334	2.6976	0.7129	0.0314	0.7442		3,477.5227	3,477.5227	0.1720		3,481.8229
Total	13.1549	4.8671	32.0145	0.0844	2.6642	2.9016	5.5658	0.7129	2.8996	3.6124	346.5760	4,543.5381	4,890.1141	1.2185	0.0308	4,929.7415

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/7/2018	5/6/2018	5	0	
2	Site Preparation	Site Preparation	5/7/2018	5/18/2018	5	10	
3	Grading	Grading	5/19/2018	7/6/2018	5	35	
4	Building Construction	Building Construction	7/7/2018	12/6/2019	5	370	
5	Paving	Paving	12/7/2019	1/3/2020	5	20	
6	Architectural Coating	Architectural Coating	1/4/2020	1/31/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 243,506; Residential Outdoor: 81,169; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	3.3966	35.6388	18.0998	0.0295		1.9663	1.9663		1.8090	1.8090		2,971.4505	2,971.4505	0.9251		2,994.5768
Total	3.3966	35.6388	18.0998	0.0295	12.0442	1.9663	14.0105	6.6205	1.8090	8.4295		2,971.4505	2,971.4505	0.9251		2,994.5768

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0970	0.0695	0.9032	2.2100e-003	0.2012	1.6000e-003	0.2028	0.0534	1.4800e-003	0.0548		219.4833	219.4833	7.4800e-003		219.6704
Total	0.0970	0.0695	0.9032	2.2100e-003	0.2012	1.6000e-003	0.2028	0.0534	1.4800e-003	0.0548		219.4833	219.4833	7.4800e-003		219.6704

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	3.3966	35.6388	18.0998	0.0295		1.9663	1.9663		1.8090	1.8090	0.0000	2,971.4505	2,971.4505	0.9251		2,994.5768
Total	3.3966	35.6388	18.0998	0.0295	5.4199	1.9663	7.3862	2.9792	1.8090	4.7882	0.0000	2,971.4505	2,971.4505	0.9251		2,994.5768

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0970	0.0695	0.9032	2.2100e-003	0.2012	1.6000e-003	0.2028	0.0534	1.4800e-003	0.0548		219.4833	219.4833	7.4800e-003		219.6704
Total	0.0970	0.0695	0.9032	2.2100e-003	0.2012	1.6000e-003	0.2028	0.0534	1.4800e-003	0.0548		219.4833	219.4833	7.4800e-003		219.6704

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1078	0.0773	1.0035	2.4500e-003	0.2236	1.7800e-003	0.2253	0.0593	1.6400e-003	0.0609		243.8703	243.8703	8.3200e-003		244.0782
Total	0.1078	0.0773	1.0035	2.4500e-003	0.2236	1.7800e-003	0.2253	0.0593	1.6400e-003	0.0609		243.8703	243.8703	8.3200e-003		244.0782

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	3.9030	2.6337	6.5367	1.6184	2.4230	4.0415	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1078	0.0773	1.0035	2.4500e-003	0.2236	1.7800e-003	0.2253	0.0593	1.6400e-003	0.0609		243.8703	243.8703	8.3200e-003		244.0782
Total	0.1078	0.0773	1.0035	2.4500e-003	0.2236	1.7800e-003	0.2253	0.0593	1.6400e-003	0.0609		243.8703	243.8703	8.3200e-003		244.0782

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1801	17.4218	15.3738	0.0219		1.2416	1.2416		1.1723	1.1723		2,112.9119	2,112.9119	0.4840		2,125.0112
Total	2.1801	17.4218	15.3738	0.0219		1.2416	1.2416		1.1723	1.1723		2,112.9119	2,112.9119	0.4840		2,125.0112

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0170	0.4847	0.1207	1.0500e-003	0.0256	3.5400e-003	0.0291	7.3700e-003	3.3900e-003	0.0108		111.4632	111.4632	7.5900e-003		111.6529
Worker	0.0701	0.0502	0.6523	1.5900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		158.5157	158.5157	5.4100e-003		158.6508
Total	0.0871	0.5350	0.7730	2.6400e-003	0.1709	4.7000e-003	0.1756	0.0459	4.4600e-003	0.0504		269.9789	269.9789	0.0130		270.3037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1801	17.4218	15.3738	0.0219		1.2416	1.2416		1.1723	1.1723	0.0000	2,112.9119	2,112.9119	0.4840		2,125.0112
Total	2.1801	17.4218	15.3738	0.0219		1.2416	1.2416		1.1723	1.1723	0.0000	2,112.9119	2,112.9119	0.4840		2,125.0112

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0170	0.4847	0.1207	1.0500e-003	0.0256	3.5400e-003	0.0291	7.3700e-003	3.3900e-003	0.0108		111.4632	111.4632	7.5900e-003		111.6529
Worker	0.0701	0.0502	0.6523	1.5900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		158.5157	158.5157	5.4100e-003		158.6508
Total	0.0871	0.5350	0.7730	2.6400e-003	0.1709	4.7000e-003	0.1756	0.0459	4.4600e-003	0.0504		269.9789	269.9789	0.0130		270.3037

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077		2,091.7709	2,091.7709	0.4732		2,103.6009
Total	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077		2,091.7709	2,091.7709	0.4732		2,103.6009

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0154	0.4577	0.1106	1.0400e-003	0.0256	3.0300e-003	0.0286	7.3700e-003	2.9000e-003	0.0103		110.4879	110.4879	7.3100e-003		110.6707
Worker	0.0637	0.0443	0.5841	1.5400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		153.5286	153.5286	4.8000e-003		153.6486
Total	0.0791	0.5020	0.6948	2.5800e-003	0.1709	4.1600e-003	0.1751	0.0459	3.9400e-003	0.0499		264.0165	264.0165	0.0121		264.3193

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077	0.0000	2,091.7709	2,091.7709	0.4732		2,103.6009
Total	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077	0.0000	2,091.7709	2,091.7709	0.4732		2,103.6009

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0154	0.4577	0.1106	1.0400e-003	0.0256	3.0300e-003	0.0286	7.3700e-003	2.9000e-003	0.0103		110.4879	110.4879	7.3100e-003		110.6707
Worker	0.0637	0.0443	0.5841	1.5400e-003	0.1453	1.1300e-003	0.1464	0.0385	1.0400e-003	0.0396		153.5286	153.5286	4.8000e-003		153.6486
Total	0.0791	0.5020	0.6948	2.5800e-003	0.1709	4.1600e-003	0.1751	0.0459	3.9400e-003	0.0499		264.0165	264.0165	0.0121		264.3193

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.6 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0735	0.0511	0.6740	1.7800e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		177.1484	177.1484	5.5400e-003		177.2869
Total	0.0735	0.0511	0.6740	1.7800e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		177.1484	177.1484	5.5400e-003		177.2869

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0735	0.0511	0.6740	1.7800e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		177.1484	177.1484	5.5400e-003		177.2869
Total	0.0735	0.0511	0.6740	1.7800e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		177.1484	177.1484	5.5400e-003		177.2869

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860
Total	0.0679	0.0456	0.6132	1.7200e-003	0.1677	1.2700e-003	0.1689	0.0445	1.1700e-003	0.0456		171.6626	171.6626	4.9400e-003		171.7860

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.6217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	37.8639	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.1200e-003	0.1227	3.4000e-004	0.0335	2.5000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		34.3325	34.3325	9.9000e-004		34.3572
Total	0.0136	9.1200e-003	0.1227	3.4000e-004	0.0335	2.5000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		34.3325	34.3325	9.9000e-004		34.3572

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.6217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	37.8639	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0136	9.1200e-003	0.1227	3.4000e-004	0.0335	2.5000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		34.3325	34.3325	9.9000e-004		34.3572
Total	0.0136	9.1200e-003	0.1227	3.4000e-004	0.0335	2.5000e-004	0.0338	8.8900e-003	2.3000e-004	9.1300e-003		34.3325	34.3325	9.9000e-004		34.3572

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7431	3.7549	10.0039	0.0342	2.6642	0.0334	2.6976	0.7129	0.0314	0.7442		3,477.5227	3,477.5227	0.1720		3,481.8229
Unmitigated	0.7431	3.7549	10.0039	0.0342	2.6642	0.0334	2.6976	0.7129	0.0314	0.7442		3,477.5227	3,477.5227	0.1720		3,481.8229

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	352.24	366.67	318.94	1,194,446	1,194,446
Total	352.24	366.67	318.94	1,194,446	1,194,446

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

5.0 Energy Detail

Historical Energy Use: N

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634
NaturalGas Unmitigated	0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	3353.41	0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634
Total		0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	3.35341	0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634
Total		0.0362	0.3090	0.1315	1.9700e-003		0.0250	0.0250		0.0250	0.0250		394.5190	394.5190	7.5600e-003	7.2300e-003	396.8634

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.3757	0.8031	21.8791	0.0482		2.8432	2.8432		2.8432	2.8432	346.5760	671.4964	1,018.0724	1.0389	0.0235	1,051.0552
Unmitigated	12.3757	0.8031	21.8791	0.0482		2.8432	2.8432		2.8432	2.8432	346.5760	671.4964	1,018.0724	1.0389	0.0235	1,051.0552

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.6953	0.7677	18.8164	0.0480		2.8264	2.8264		2.8264	2.8264	346.5760	666.0000	1,012.5760	1.0336	0.0235	1,045.4248
Landscaping	0.0933	0.0354	3.0627	1.6000e-004		0.0168	0.0168		0.0168	0.0168		5.4964	5.4964	5.3600e-003		5.6304
Total	12.3757	0.8031	21.8791	0.0482		2.8432	2.8432		2.8432	2.8432	346.5760	671.4964	1,018.0724	1.0389	0.0235	1,051.0552

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2062					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3810					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.6953	0.7677	18.8164	0.0480		2.8264	2.8264		2.8264	2.8264	346.5760	666.0000	1,012.5760	1.0336	0.0235	1,045.4248
Landscaping	0.0933	0.0354	3.0627	1.6000e-004		0.0168	0.0168		0.0168	0.0168		5.4964	5.4964	5.3600e-003		5.6304
Total	12.3757	0.8031	21.8791	0.0482		2.8432	2.8432		2.8432	2.8432	346.5760	671.4964	1,018.0724	1.0389	0.0235	1,051.0552

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Canyon View Estates V.2 - South Coast AQMD Air District, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Canyon View Estates V.2 - South Coast AQMD Air District, Annual

Canyon View Estates V.2
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	37.00	Dwelling Unit	21.00	120,250.00	110

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Canyon View Estates V.2 - South Coast AQMD Air District, Annual

Project Characteristics -

Land Use - 21 acres graded. 120,250 sq ft res. space. 110 population per Initial Study.

Construction Phase - No demolition

Off-road Equipment -

Off-road Equipment - no cranes

Off-road Equipment - No demolition

Off-road Equipment - two rubber tired dozers

Construction Off-road Equipment Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	BuildingSpaceSquareFeet	66,600.00	120,250.00
tblLandUse	LandUseSquareFeet	66,600.00	120,250.00
tblLandUse	LotAcreage	12.01	21.00
tblLandUse	Population	106.00	110.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00

2.0 Emissions Summary

Canyon View Estates V.2 - South Coast AQMD Air District, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2512	2.3540	1.7399	2.8200e-003	0.2274	0.1345	0.3619	0.1002	0.1256	0.2258	0.0000	252.9172	252.9172	0.0636	0.0000	254.5077
2019	0.2568	2.1234	2.0596	3.1800e-003	0.0219	0.1377	0.1596	5.8800e-003	0.1299	0.1358	0.0000	278.4609	278.4609	0.0593	0.0000	279.9424
2020	0.3809	0.0381	0.0423	7.0000e-005	5.8000e-004	2.2400e-003	2.8200e-003	1.5000e-004	2.1500e-003	2.3100e-003	0.0000	6.0760	6.0760	1.1800e-003	0.0000	6.1056
Maximum	0.3809	2.3540	2.0596	3.1800e-003	0.2274	0.1377	0.3619	0.1002	0.1299	0.2258	0.0000	278.4609	278.4609	0.0636	0.0000	279.9424

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2512	2.3540	1.7399	2.8200e-003	0.1108	0.1345	0.2453	0.0474	0.1256	0.1730	0.0000	252.9169	252.9169	0.0636	0.0000	254.5074
2019	0.2568	2.1234	2.0596	3.1800e-003	0.0219	0.1377	0.1596	5.8800e-003	0.1299	0.1358	0.0000	278.4606	278.4606	0.0593	0.0000	279.9421
2020	0.3809	0.0381	0.0423	7.0000e-005	5.8000e-004	2.2400e-003	2.8200e-003	1.5000e-004	2.1500e-003	2.3100e-003	0.0000	6.0760	6.0760	1.1800e-003	0.0000	6.1056
Maximum	0.3809	2.3540	2.0596	3.1800e-003	0.1108	0.1377	0.2453	0.0474	0.1299	0.1730	0.0000	278.4606	278.4606	0.0636	0.0000	279.9421

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	46.67	0.00	22.24	49.74	0.00	14.52	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-7-2018	8-6-2018	1.5259	1.5259
2	8-7-2018	11-6-2018	0.6647	0.6647
3	11-7-2018	2-6-2019	0.6398	0.6398
4	2-7-2019	5-6-2019	0.5826	0.5826
5	5-7-2019	8-6-2019	0.6021	0.6021
6	8-7-2019	11-6-2019	0.6022	0.6022
7	11-7-2019	2-6-2020	0.7591	0.7591
		Highest	1.5259	1.5259

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2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6050	0.0140	0.6180	6.2000e-004		0.0374	0.0374		0.0374	0.0374	3.9301	8.1756	12.1057	0.0123	2.7000e-004	12.4934
Energy	6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	168.9599	168.9599	5.5300e-003	2.0800e-003	169.7188
Mobile	0.1203	0.6789	1.6515	5.7000e-003	0.4539	5.8000e-003	0.4597	0.1216	5.4500e-003	0.1271	0.0000	525.7438	525.7438	0.0268	0.0000	526.4146
Waste						0.0000	0.0000		0.0000	0.0000	9.1549	0.0000	9.1549	0.5410	0.0000	22.6809
Water						0.0000	0.0000		0.0000	0.0000	0.7648	15.3813	16.1461	0.0792	1.9900e-003	18.7177
Total	0.7319	0.7493	2.2935	6.6800e-003	0.4539	0.0478	0.5016	0.1216	0.0474	0.1691	13.8498	718.2605	732.1103	0.6649	4.3400e-003	750.0254

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6050	0.0140	0.6180	6.2000e-004		0.0374	0.0374		0.0374	0.0374	3.9301	8.1756	12.1057	0.0123	2.7000e-004	12.4934
Energy	6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	168.9599	168.9599	5.5300e-003	2.0800e-003	169.7188
Mobile	0.1203	0.6789	1.6515	5.7000e-003	0.4539	5.8000e-003	0.4597	0.1216	5.4500e-003	0.1271	0.0000	525.7438	525.7438	0.0268	0.0000	526.4146
Waste						0.0000	0.0000		0.0000	0.0000	9.1549	0.0000	9.1549	0.5410	0.0000	22.6809
Water						0.0000	0.0000		0.0000	0.0000	0.7648	15.3813	16.1461	0.0792	1.9900e-003	18.7177
Total	0.7319	0.7493	2.2935	6.6800e-003	0.4539	0.0478	0.5016	0.1216	0.0474	0.1691	13.8498	718.2605	732.1103	0.6649	4.3400e-003	750.0254

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/7/2018	5/6/2018	5	0	
2	Site Preparation	Site Preparation	5/7/2018	5/18/2018	5	10	
3	Grading	Grading	5/19/2018	7/6/2018	5	35	
4	Building Construction	Building Construction	7/7/2018	12/6/2019	5	370	
5	Paving	Paving	12/7/2019	1/3/2020	5	20	
6	Architectural Coating	Architectural Coating	1/4/2020	1/31/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 87.5

Acres of Paving: 0

Residential Indoor: 243,506; Residential Outdoor: 81,169; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Excavators	0	0.00	158	0.38
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0602	0.0000	0.0602	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1782	0.0905	1.5000e-004		9.8300e-003	9.8300e-003		9.0500e-003	9.0500e-003	0.0000	13.4783	13.4783	4.2000e-003	0.0000	13.5832
Total	0.0170	0.1782	0.0905	1.5000e-004	0.0602	9.8300e-003	0.0701	0.0331	9.0500e-003	0.0422	0.0000	13.4783	13.4783	4.2000e-003	0.0000	13.5832

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.9000e-004	4.2000e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9473	0.9473	3.0000e-005	0.0000	0.9481
Total	4.8000e-004	3.9000e-004	4.2000e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9473	0.9473	3.0000e-005	0.0000	0.9481

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1782	0.0905	1.5000e-004		9.8300e-003	9.8300e-003		9.0500e-003	9.0500e-003	0.0000	13.4783	13.4783	4.2000e-003	0.0000	13.5832
Total	0.0170	0.1782	0.0905	1.5000e-004	0.0271	9.8300e-003	0.0369	0.0149	9.0500e-003	0.0240	0.0000	13.4783	13.4783	4.2000e-003	0.0000	13.5832

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3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.9000e-004	4.2000e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9473	0.9473	3.0000e-005	0.0000	0.9481
Total	4.8000e-004	3.9000e-004	4.2000e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9473	0.9473	3.0000e-005	0.0000	0.9481

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1518	0.0000	0.1518	0.0629	0.0000	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0891	1.0416	0.6141	1.0900e-003		0.0461	0.0461		0.0424	0.0424	0.0000	99.1349	99.1349	0.0309	0.0000	99.9064
Total	0.0891	1.0416	0.6141	1.0900e-003	0.1518	0.0461	0.1979	0.0629	0.0424	0.1053	0.0000	99.1349	99.1349	0.0309	0.0000	99.9064

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3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.5200e-003	0.0163	4.0000e-005	3.8400e-003	3.0000e-005	3.8700e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.6838	3.6838	1.3000e-004	0.0000	3.6869
Total	1.8600e-003	1.5200e-003	0.0163	4.0000e-005	3.8400e-003	3.0000e-005	3.8700e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.6838	3.6838	1.3000e-004	0.0000	3.6869

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0683	0.0000	0.0683	0.0283	0.0000	0.0283	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0891	1.0416	0.6141	1.0900e-003		0.0461	0.0461		0.0424	0.0424	0.0000	99.1348	99.1348	0.0309	0.0000	99.9063
Total	0.0891	1.0416	0.6141	1.0900e-003	0.0683	0.0461	0.1144	0.0283	0.0424	0.0707	0.0000	99.1348	99.1348	0.0309	0.0000	99.9063

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3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.5200e-003	0.0163	4.0000e-005	3.8400e-003	3.0000e-005	3.8700e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.6838	3.6838	1.3000e-004	0.0000	3.6869
Total	1.8600e-003	1.5200e-003	0.0163	4.0000e-005	3.8400e-003	3.0000e-005	3.8700e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.6838	3.6838	1.3000e-004	0.0000	3.6869

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1374	1.0976	0.9686	1.3800e-003		0.0782	0.0782		0.0739	0.0739	0.0000	120.7585	120.7585	0.0277	0.0000	121.4500
Total	0.1374	1.0976	0.9686	1.3800e-003		0.0782	0.0782		0.0739	0.0739	0.0000	120.7585	120.7585	0.0277	0.0000	121.4500

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0312	8.0300e-003	7.0000e-005	1.5900e-003	2.2000e-004	1.8100e-003	4.6000e-004	2.1000e-004	6.7000e-004	0.0000	6.2946	6.2946	4.5000e-004	0.0000	6.3058
Worker	4.3500e-003	3.5600e-003	0.0382	1.0000e-004	8.9900e-003	7.0000e-005	9.0600e-003	2.3900e-003	7.0000e-005	2.4500e-003	0.0000	8.6200	8.6200	2.9000e-004	0.0000	8.6274
Total	5.4400e-003	0.0347	0.0463	1.7000e-004	0.0106	2.9000e-004	0.0109	2.8500e-003	2.8000e-004	3.1200e-003	0.0000	14.9146	14.9146	7.4000e-004	0.0000	14.9331

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1374	1.0976	0.9686	1.3800e-003		0.0782	0.0782		0.0739	0.0739	0.0000	120.7584	120.7584	0.0277	0.0000	121.4499
Total	0.1374	1.0976	0.9686	1.3800e-003		0.0782	0.0782		0.0739	0.0739	0.0000	120.7584	120.7584	0.0277	0.0000	121.4499

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0312	8.0300e-003	7.0000e-005	1.5900e-003	2.2000e-004	1.8100e-003	4.6000e-004	2.1000e-004	6.7000e-004	0.0000	6.2946	6.2946	4.5000e-004	0.0000	6.3058
Worker	4.3500e-003	3.5600e-003	0.0382	1.0000e-004	8.9900e-003	7.0000e-005	9.0600e-003	2.3900e-003	7.0000e-005	2.4500e-003	0.0000	8.6200	8.6200	2.9000e-004	0.0000	8.6274
Total	5.4400e-003	0.0347	0.0463	1.7000e-004	0.0106	2.9000e-004	0.0109	2.8500e-003	2.8000e-004	3.1200e-003	0.0000	14.9146	14.9146	7.4000e-004	0.0000	14.9331

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2343	1.9304	1.8492	2.6700e-003		0.1302	0.1302		0.1229	0.1229	0.0000	231.5100	231.5100	0.0524	0.0000	232.8193
Total	0.2343	1.9304	1.8492	2.6700e-003		0.1302	0.1302		0.1229	0.1229	0.0000	231.5100	231.5100	0.0524	0.0000	232.8193

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3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9200e-003	0.0569	0.0143	1.2000e-004	3.0800e-003	3.7000e-004	3.4500e-003	8.9000e-004	3.6000e-004	1.2400e-003	0.0000	12.0815	12.0815	8.4000e-004	0.0000	12.1024
Worker	7.6600e-003	6.0800e-003	0.0661	1.8000e-004	0.0174	1.4000e-004	0.0175	4.6200e-003	1.3000e-004	4.7500e-003	0.0000	16.1660	16.1660	5.1000e-004	0.0000	16.1786
Total	9.5800e-003	0.0630	0.0804	3.0000e-004	0.0205	5.1000e-004	0.0210	5.5100e-003	4.9000e-004	5.9900e-003	0.0000	28.2474	28.2474	1.3500e-003	0.0000	28.2810

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2343	1.9304	1.8492	2.6700e-003		0.1302	0.1302		0.1229	0.1229	0.0000	231.5097	231.5097	0.0524	0.0000	232.8190
Total	0.2343	1.9304	1.8492	2.6700e-003		0.1302	0.1302		0.1229	0.1229	0.0000	231.5097	231.5097	0.0524	0.0000	232.8190

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3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9200e-003	0.0569	0.0143	1.2000e-004	3.0800e-003	3.7000e-004	3.4500e-003	8.9000e-004	3.6000e-004	1.2400e-003	0.0000	12.0815	12.0815	8.4000e-004	0.0000	12.1024
Worker	7.6600e-003	6.0800e-003	0.0661	1.8000e-004	0.0174	1.4000e-004	0.0175	4.6200e-003	1.3000e-004	4.7500e-003	0.0000	16.1660	16.1660	5.1000e-004	0.0000	16.1786
Total	9.5800e-003	0.0630	0.0804	3.0000e-004	0.0205	5.1000e-004	0.0210	5.5100e-003	4.9000e-004	5.9900e-003	0.0000	28.2474	28.2474	1.3500e-003	0.0000	28.2810

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1296	0.1247	1.9000e-004		7.0100e-003	7.0100e-003		6.4500e-003	6.4500e-003	0.0000	17.4039	17.4039	5.5100e-003	0.0000	17.5416
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0124	0.1296	0.1247	1.9000e-004		7.0100e-003	7.0100e-003		6.4500e-003	6.4500e-003	0.0000	17.4039	17.4039	5.5100e-003	0.0000	17.5416

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3.6 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.9000e-004	5.3200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2996	1.2996	4.0000e-005	0.0000	1.3006
Total	6.2000e-004	4.9000e-004	5.3200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2996	1.2996	4.0000e-005	0.0000	1.3006

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1296	0.1247	1.9000e-004		7.0100e-003	7.0100e-003		6.4500e-003	6.4500e-003	0.0000	17.4039	17.4039	5.5100e-003	0.0000	17.5415
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0124	0.1296	0.1247	1.9000e-004		7.0100e-003	7.0100e-003		6.4500e-003	6.4500e-003	0.0000	17.4039	17.4039	5.5100e-003	0.0000	17.5415

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3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.9000e-004	5.3200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2996	1.2996	4.0000e-005	0.0000	1.3006
Total	6.2000e-004	4.9000e-004	5.3200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2996	1.2996	4.0000e-005	0.0000	1.3006

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0300e-003	0.0211	0.0220	3.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	3.0042	3.0042	9.7000e-004	0.0000	3.0285
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0300e-003	0.0211	0.0220	3.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	3.0042	3.0042	9.7000e-004	0.0000	3.0285

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3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	8.0000e-005	8.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2222	0.2222	1.0000e-005	0.0000	0.2224
Total	1.0000e-004	8.0000e-005	8.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2222	0.2222	1.0000e-005	0.0000	0.2224

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0300e-003	0.0211	0.0220	3.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	3.0042	3.0042	9.7000e-004	0.0000	3.0285
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0300e-003	0.0211	0.0220	3.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	3.0042	3.0042	9.7000e-004	0.0000	3.0285

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3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	8.0000e-005	8.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2222	0.2222	1.0000e-005	0.0000	0.2224
Total	1.0000e-004	8.0000e-005	8.5000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2222	0.2222	1.0000e-005	0.0000	0.2224

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
Total	0.3786	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582

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3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2963	0.2963	1.0000e-005	0.0000	0.2965
Total	1.3000e-004	1.0000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2963	0.2963	1.0000e-005	0.0000	0.2965

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
Total	0.3786	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582

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3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2963	0.2963	1.0000e-005	0.0000	0.2965
Total	1.3000e-004	1.0000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2963	0.2963	1.0000e-005	0.0000	0.2965

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1203	0.6789	1.6515	5.7000e-003	0.4539	5.8000e-003	0.4597	0.1216	5.4500e-003	0.1271	0.0000	525.7438	525.7438	0.0268	0.0000	526.4146
Unmitigated	0.1203	0.6789	1.6515	5.7000e-003	0.4539	5.8000e-003	0.4597	0.1216	5.4500e-003	0.1271	0.0000	525.7438	525.7438	0.0268	0.0000	526.4146

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	352.24	366.67	318.94	1,194,446	1,194,446
Total	352.24	366.67	318.94	1,194,446	1,194,446

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	103.6428	103.6428	4.2800e-003	8.9000e-004	104.0136
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	103.6428	103.6428	4.2800e-003	8.9000e-004	104.0136
NaturalGas Mitigated	6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	65.3170	65.3170	1.2500e-003	1.2000e-003	65.7052
NaturalGas Unmitigated	6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	65.3170	65.3170	1.2500e-003	1.2000e-003	65.7052

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.224e+006	6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	65.3170	65.3170	1.2500e-003	1.2000e-003	65.7052
Total		6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	65.3170	65.3170	1.2500e-003	1.2000e-003	65.7052

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.224e+006	6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	65.3170	65.3170	1.2500e-003	1.2000e-003	65.7052
Total		6.6000e-003	0.0564	0.0240	3.6000e-004		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	65.3170	65.3170	1.2500e-003	1.2000e-003	65.7052

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	325285	103.6428	4.2800e-003	8.9000e-004	104.0136
Total		103.6428	4.2800e-003	8.9000e-004	104.0136

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	325285	103.6428	4.2800e-003	8.9000e-004	104.0136
Total		103.6428	4.2800e-003	8.9000e-004	104.0136

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6050	0.0140	0.6180	6.2000e-004		0.0374	0.0374		0.0374	0.0374	3.9301	8.1756	12.1057	0.0123	2.7000e-004	12.4934
Unmitigated	0.6050	0.0140	0.6180	6.2000e-004		0.0374	0.0374		0.0374	0.0374	3.9301	8.1756	12.1057	0.0123	2.7000e-004	12.4934

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0376					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4345					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1212	9.6000e-003	0.2352	6.0000e-004		0.0353	0.0353		0.0353	0.0353	3.9301	7.5523	11.4824	0.0117	2.7000e-004	11.8549
Landscaping	0.0117	4.4300e-003	0.3828	2.0000e-005		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	0.6233	0.6233	6.1000e-004	0.0000	0.6385
Total	0.6050	0.0140	0.6181	6.2000e-004		0.0374	0.0374		0.0374	0.0374	3.9301	8.1756	12.1057	0.0123	2.7000e-004	12.4934

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0376					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4345					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1212	9.6000e-003	0.2352	6.0000e-004		0.0353	0.0353		0.0353	0.0353	3.9301	7.5523	11.4824	0.0117	2.7000e-004	11.8549
Landscaping	0.0117	4.4300e-003	0.3828	2.0000e-005		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	0.6233	0.6233	6.1000e-004	0.0000	0.6385
Total	0.6050	0.0140	0.6181	6.2000e-004		0.0374	0.0374		0.0374	0.0374	3.9301	8.1756	12.1057	0.0123	2.7000e-004	12.4934

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.1461	0.0792	1.9900e-003	18.7177
Unmitigated	16.1461	0.0792	1.9900e-003	18.7177

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.4107 / 1.51979	16.1461	0.0792	1.9900e-003	18.7177
Total		16.1461	0.0792	1.9900e-003	18.7177

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.4107 / 1.51979	16.1461	0.0792	1.9900e-003	18.7177
Total		16.1461	0.0792	1.9900e-003	18.7177

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.1549	0.5410	0.0000	22.6809
Unmitigated	9.1549	0.5410	0.0000	22.6809

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	45.1	9.1549	0.5410	0.0000	22.6809
Total		9.1549	0.5410	0.0000	22.6809

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	45.1	9.1549	0.5410	0.0000	22.6809
Total		9.1549	0.5410	0.0000	22.6809

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
